

# • Single/Dual-Pump System •



This Quick Reference Card is a summary of your spa's main functions and provides a quick overview of operations accessible from your spa side keypad.

## To start Pump 1:



Press the **Pump 1** key to turn Pump 1 on at low speed. Press a second time to turn Pump 1 to high speed. A third press will turn Pump 1 off after 20 minutes unless it has been manually deactivated.



The "Pump1" indicator lights up when Pump 1 is on at high speed. It flashes when Pump 1 is on at low speed.

## To start Pump 2:



*For Dual-pump configuration only.*

Press the **Pump 2** key to turn Pump 2 on. Press a second time will turn Pump 2 off. A built-in timer will turn Pump 2 off after 20 minutes unless it has been manually deactivated.



The "Pump2" indicator lights up when Pump 2 is on.

## To Start the blower:



*For Dual-pump configuration only.*

Press the **Blower** key to turn Blower on. Press a second time will turn the blower off. A built-in timer will turn Pump 2 off after 20 minutes unless it has been manually deactivated first.



The "Blower" indicator lights up when blower is on.

## To turn the light on:



Press the **Light** key to turn the light on. Press a second time will turn the light off. A built-in timer will turn the light off after 2 hours unless it has been manually deactivated.



The "Pump2" indicator lights up when Pump 2 is on.

## Setting water temperature:



Press the **Up/Down** arrow key to increase or decrease the desired water temperature. The selected temperature setting ("set point" value) will be displayed for 5 seconds as a confirmation.



The "Set Point" indicator will indicate that the temperature shown is the desired, and not the current temperature of the water!

The temperature can be adjusted by 1° increments from 59 - 104°F (15-40°C).

## Temperature unit:

Water temperature can be displayed in °F or °C. Simply press and hold the Light key for 10 seconds to toggle between °F or °C.

## Water heater automatic start:

When the water temperature is 1° (0.5°C) lower than the set point, the heater will be turned on until the water temperature reaches the set point plus 1°(0.5°C).



The "Heater" indicator lights up when heater is on. It flashes when there is a request for more heat but the heater has not started yet.

# PROGRAMMING THE FILTER CYCLE DURATION

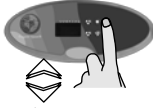
The system will automatically perform two filter cycles per day. During a filter cycle:

- If present, Pump 2 and/or Blower run(s) for one minute, then
  - Pump 1 runs a low speed for the **programmed number of hours, and the ozonator is turned on.**

## To set the Filter cycle duration



Press the Pump 2 & Blower Keys simultaneously. The display will show FDxx, with "xx" representing the currently set filter cycle duration in hours.

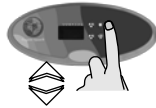


Use the Up or Down arrow key to change the settings.

- 0 = no filter cycle
- 1 = one hour
- 2 = two hours



Press the Pump 2 & Blower Keys simultaneously a second time. The display will show FFxx, with "xx" representing the currently set filter cycle frequency per day.



Use the Up or Down arrow key to change the settings.

- 1 = once per day
- 2 = twice per day
- 3 = three times per day
- 4 = four times per day



When the desired setting is displayed, press the Pump 2 & Blower keys simultaneously a third time.

The "Filter Cycle" indicator lights up during the filter cycle.



An irregularly flashing "Filter Cycle" indicator indicates that the system has stopped filtering after 3 hours because the water temperature exceeds the set point by more than 2°F (1°C). If the temperature cools down to 1°F (0.5°C) above the set point before the scheduled end of the cycle, filtering will resume for the remaining programmed duration.

Note: After a power failure cycle duration will return to its default value (6 Hours). In this case the first filter cycle will start 12 hours after the power has been restored.

## TROUBLESHOOTING



A pump has started up for one minute on several occasions and "Filter Cycle" indicator is flashing.

Not a bug but a feature! Our **Smart Winter Mode** protects your system from the cold by turning the pump on for one minute several times a day to prevent water from freezing in pipes.



"HL" error message is displayed.

The system has shut the heater down because the temperature **at the heater** has reached 119°F (48°C). Do not enter the water! Remove spa cover and allow the water to cool down, then reset the breaker to reset the system.



"HL" error message is flashing.

The system has shut down because the water temperature **in the spa** has reached 112°F (44°C). Only the **Smart Winter Mode** remains active. Do not enter the water! Remove spa cover and allow the water to cool down to 109°F (43°C). Call your dealer or service supplier if problem persists.



"FLO" error message is displayed.

The system detects no water pressure while a pump is running. Check and open water valves. Check water level. Clean filter. Call your dealer or service supplier if problem persists.



"FLC" error message is displayed.

A problem has been detected with the pressure switch. Call your dealer or service supplier.



"Prr" error message is displayed.

A problem has been detected with the temperature probe. Call your dealer or service supplier.

The display is flashing.

A power failure has occurred. Press any key to reset the system, then reprogram all desired parameters.

